

FIG. 1
(Prior Art)

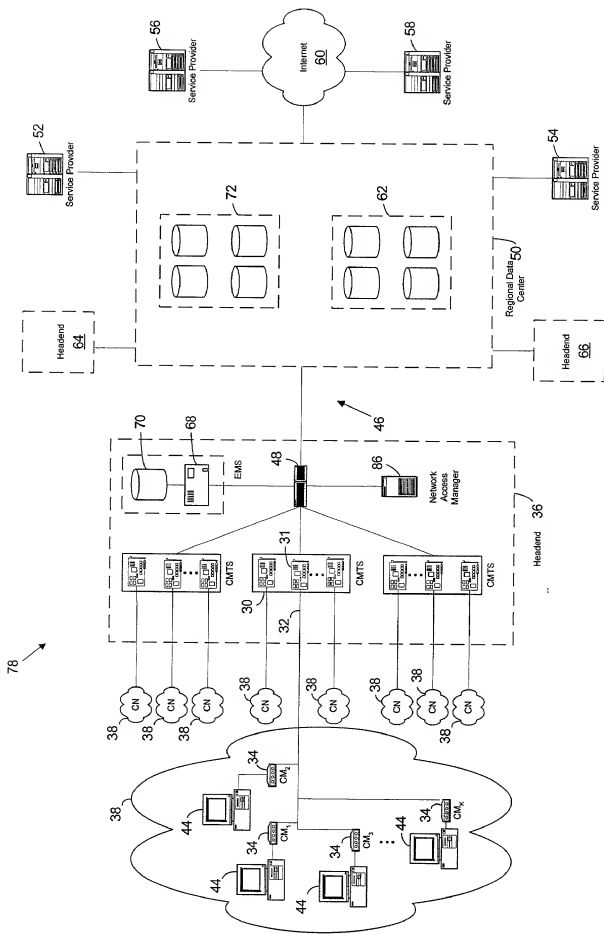


FIG. 2

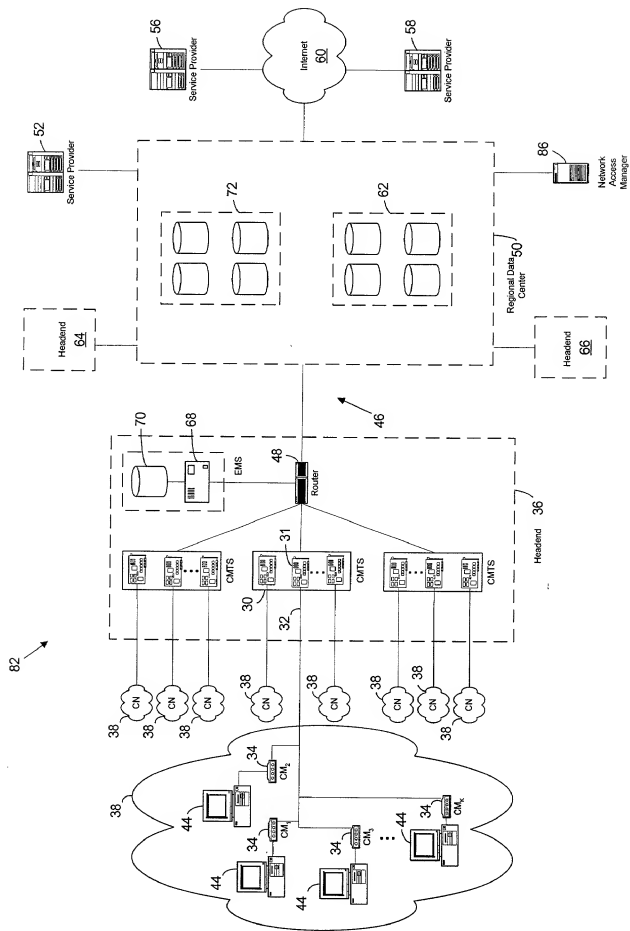


FIG. 4

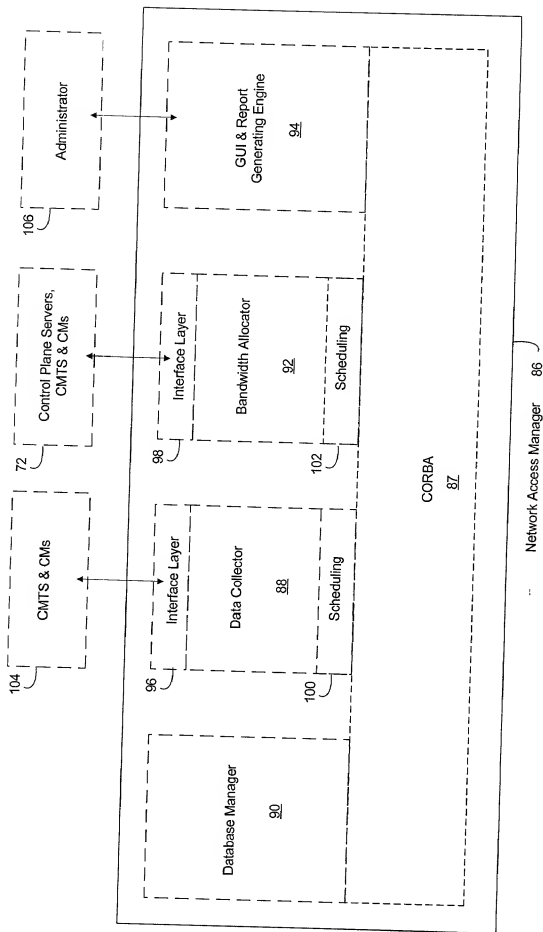


FIG. 6

```
graph TD
    Start([Start]) --> 702[Get list of active users]
    702 --> 738[/Begin forecast loop for active users/]
    738 --> 704{User assigned a forecast function?}
    704 --> 707{HW Function assigned?}
    707 --> A((A))
    704 --> 706[Assign ARRSSES Function to user and generate and record forecast]
    707 --> 706
    706 --> 730[Generate and record next forecast with HW Function]
    706 --> 732{All users evaluated?}
    730 --> 732
    732 --> 736[Send user forecasts to database manager]
    732 --> 738
    736 --> End([End])
    738 --> 726[Reinitialize HW Function]
    726 --> 728[Generate and record first forecast]
    728 --> 732
    728 --> 706
    728 --> 720[Generate and record first forecast]
    720 --> 718[Initialize HW Function]
    718 --> 716[Assign HW Function to user]
    716 --> 712{Seasonal cycle exists?}
    712 --> 714[Generate and record forecast using ARRSSES Function]
    712 --> 720
    714 --> 732
    714 --> 708{Time to check for seasonal cycle?}
    708 --> 710[Execute seasonal identifier algorithm]
    710 --> 712
    708 --> 714
```

FIG. 7

0600061.030701

800

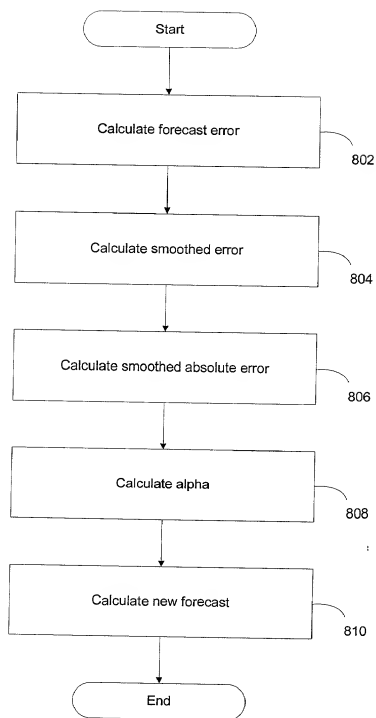


FIG. 8

900

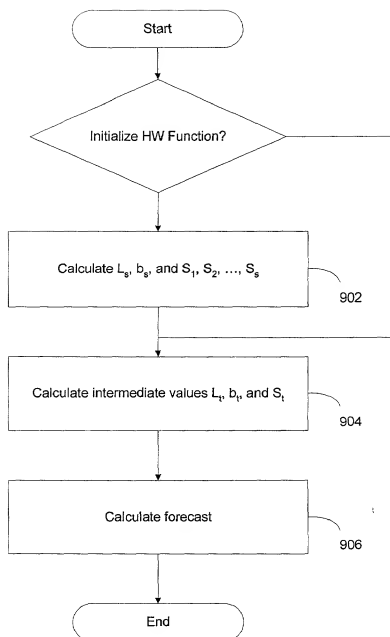


FIG. 9

A scatter plot showing the relationship between Packet Loss Rate (as % of Total Packets Transmitted) on the x-axis and Throughput (Mbps) on the y-axis. The x-axis ranges from 0 to 50, and the y-axis ranges from 0 to 50. Three data points are plotted, each marked with an 'X' and labeled:

- X (Target QoS)**: Located at approximately (8, 40).
- X (User A)**: Located at approximately (13, 30).
- X (User B)**: Located at approximately (23, 17).

The plot illustrates that as the packet loss rate increases, the throughput decreases for all three scenarios. The Target QoS scenario maintains the highest throughput for a given loss rate compared to the user-specific scenarios.

FIG. 10

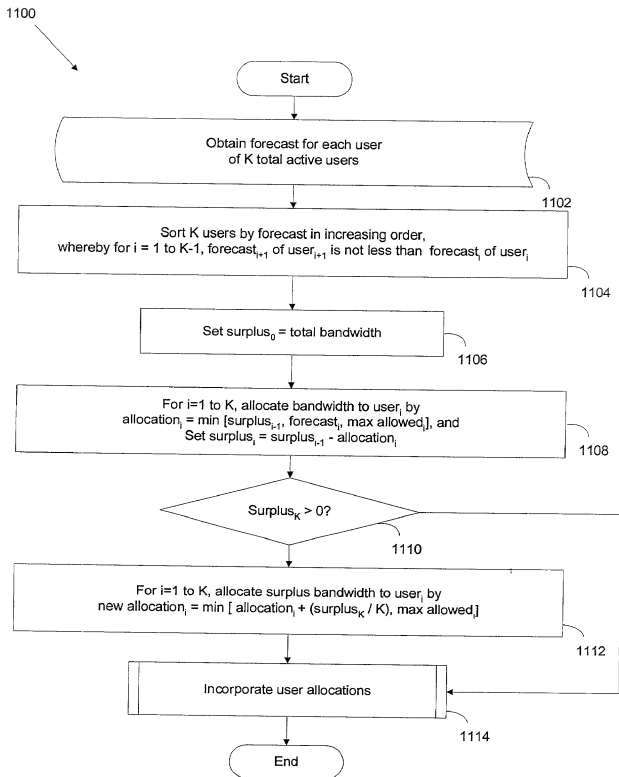


FIG. 11

1200

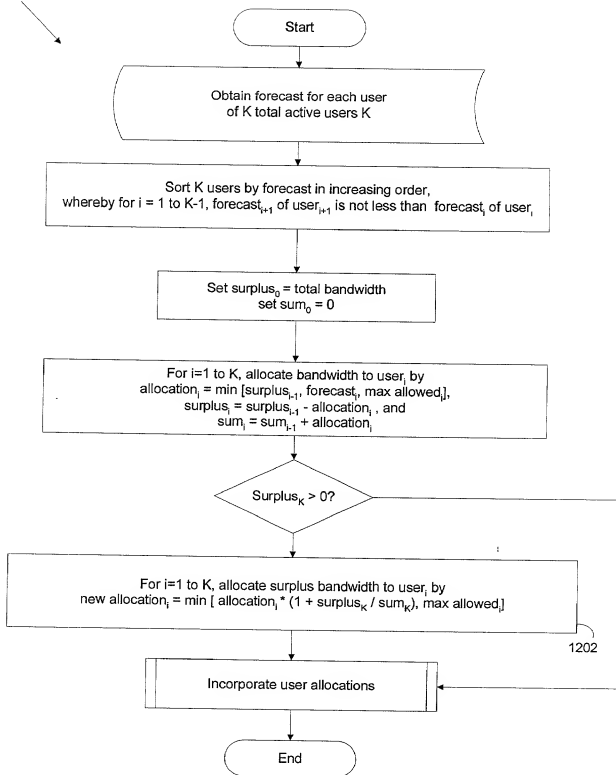


FIG. 12

1300

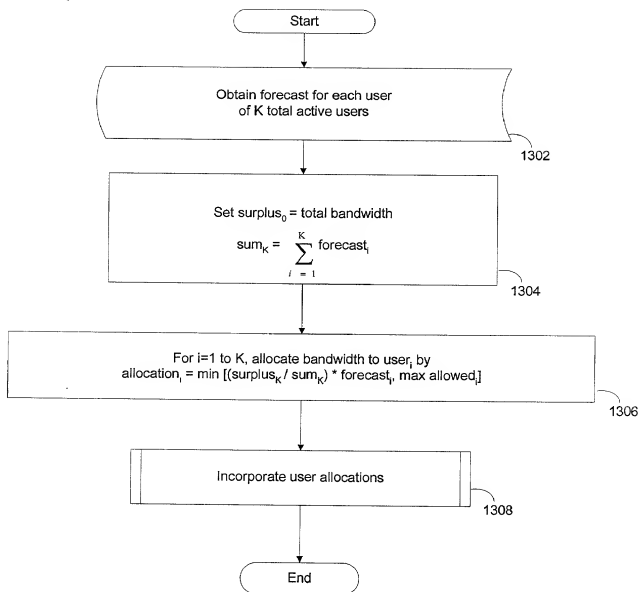


FIG. 13

1400

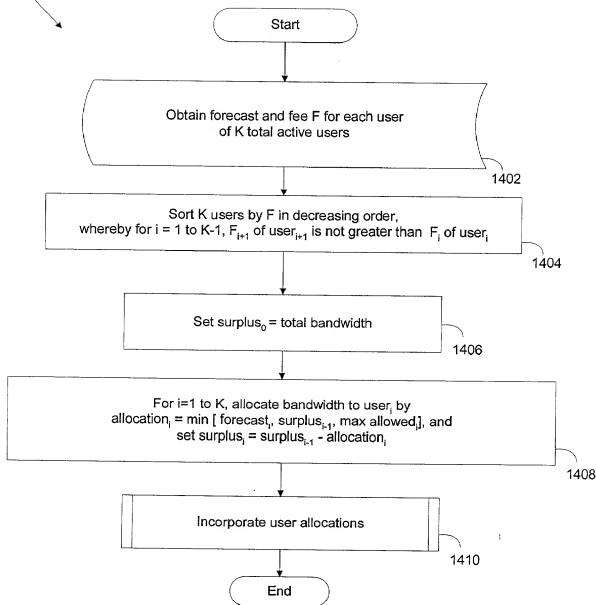


FIG. 14

1500

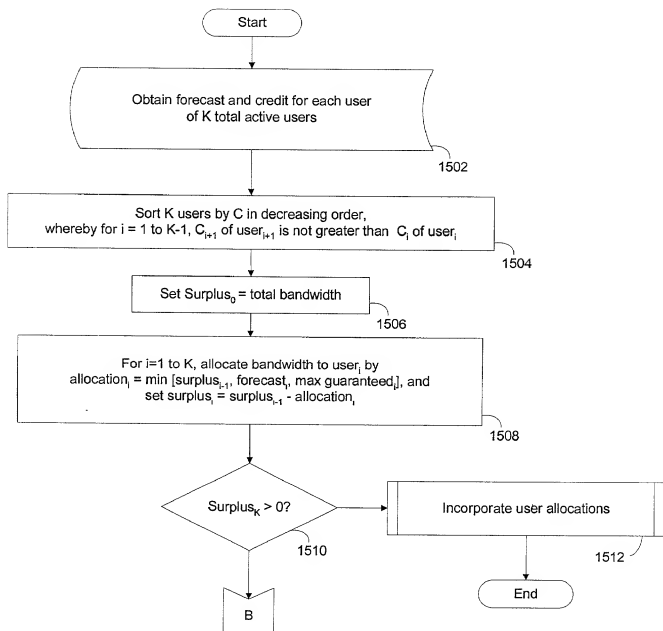


FIG. 15a

1500

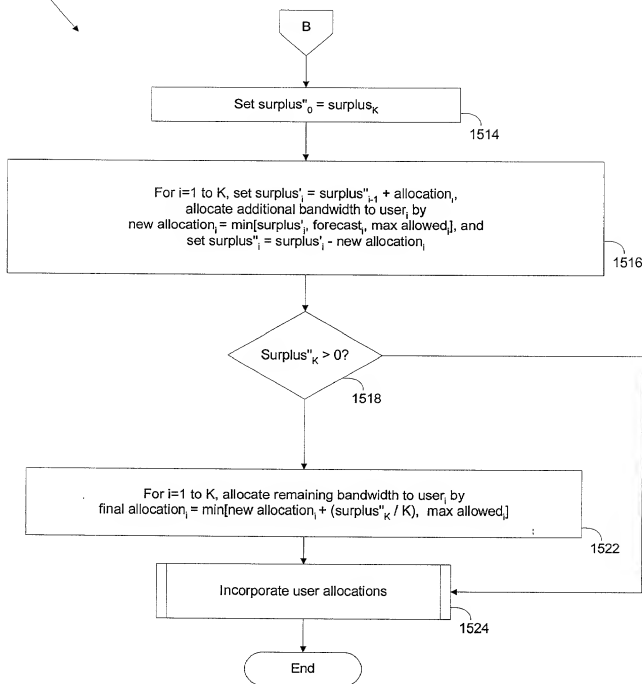


FIG. 15b

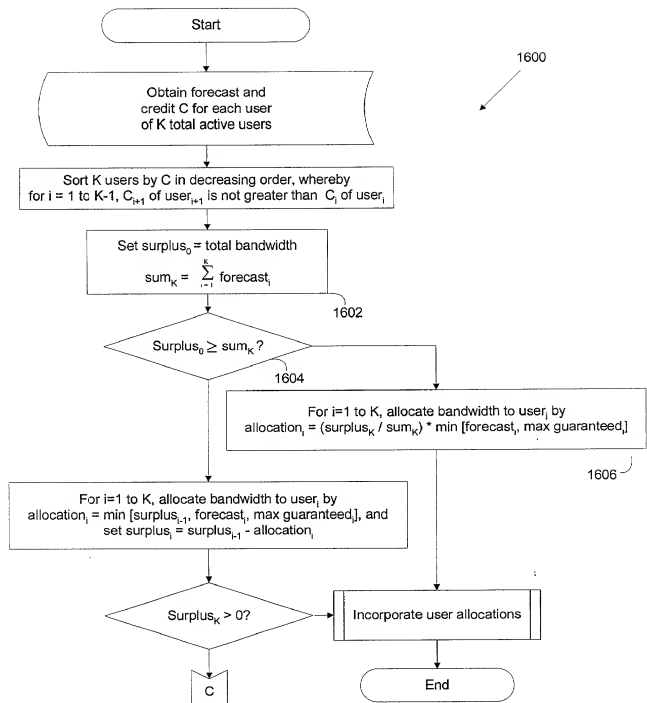


FIG. 16a

6800361-0307-01

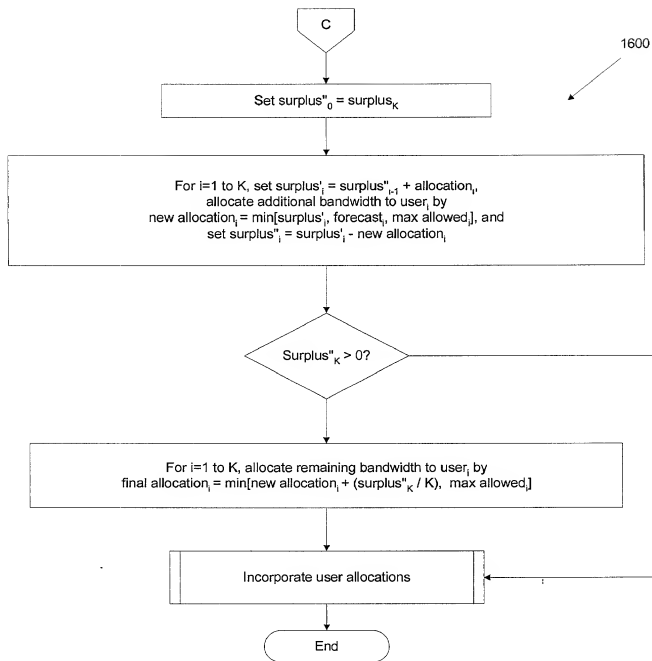


FIG. 16b

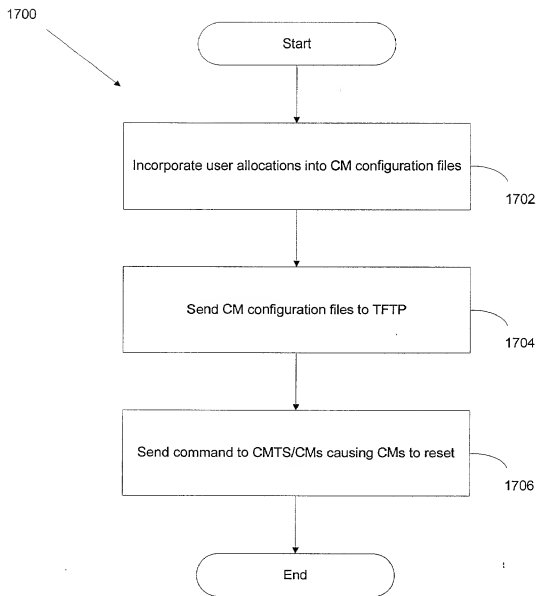


FIG. 17

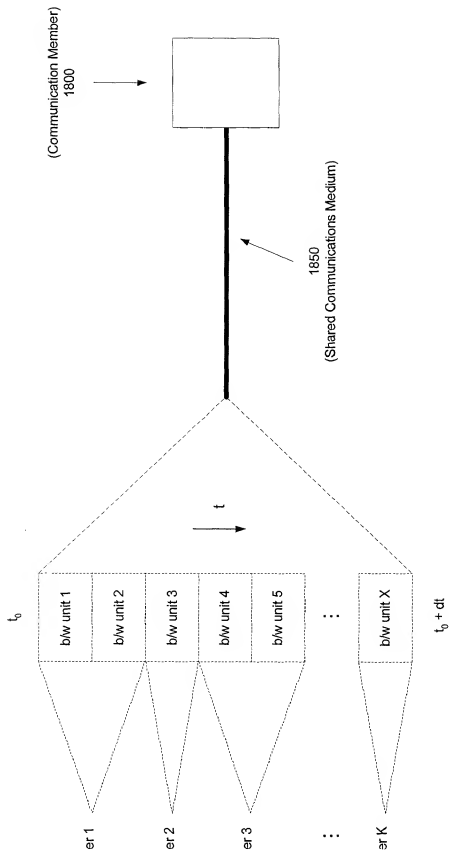


FIG. 18

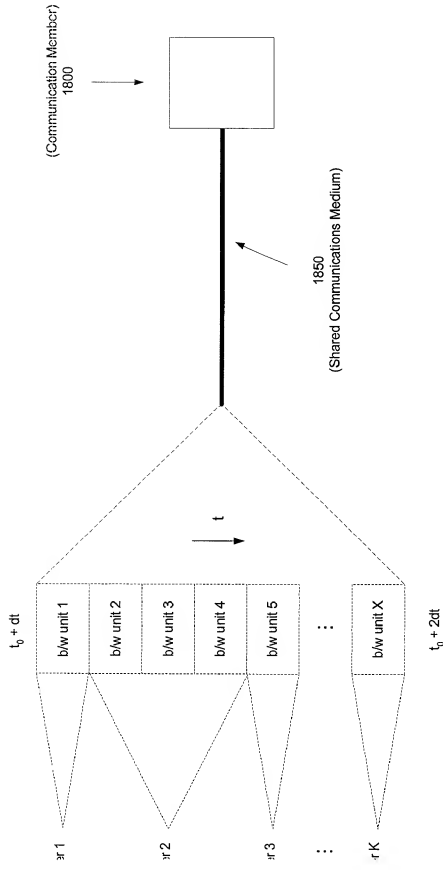


FIG. 19

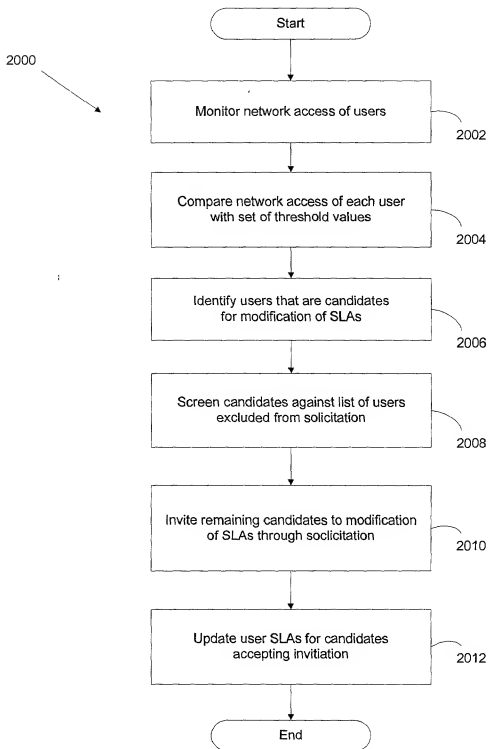


FIG. 20